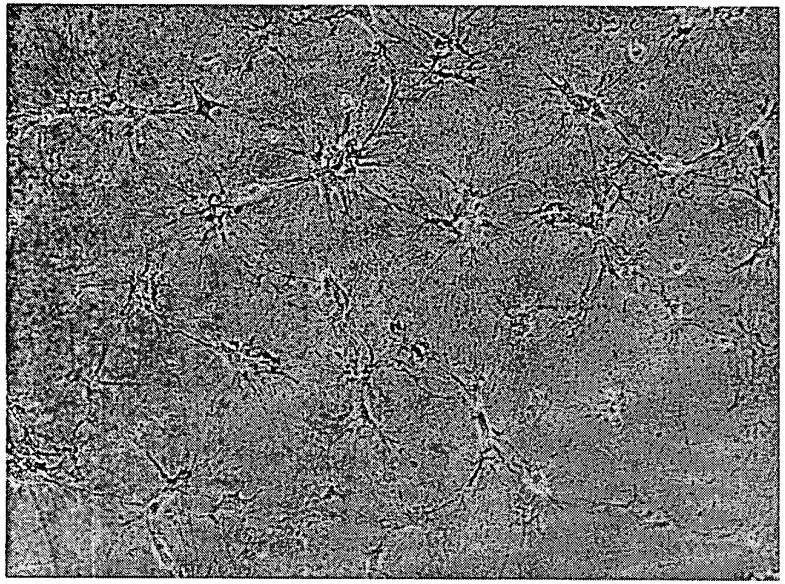

FIGURE 1A

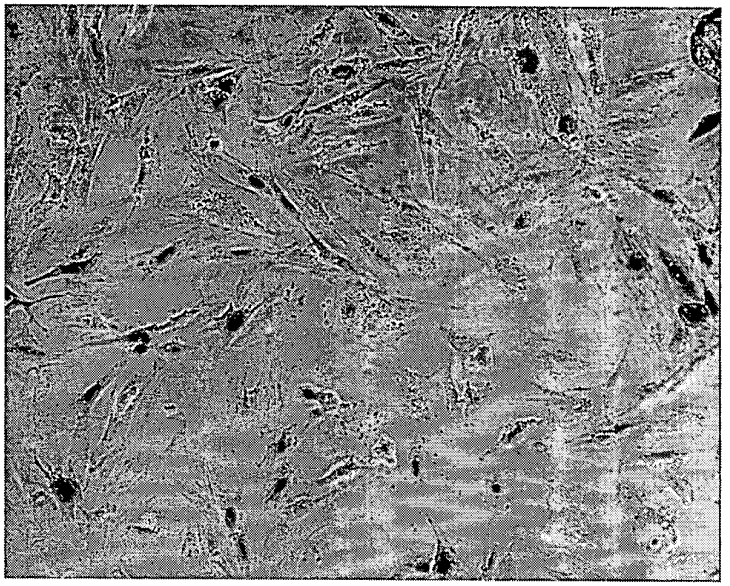

FIGURE 1B

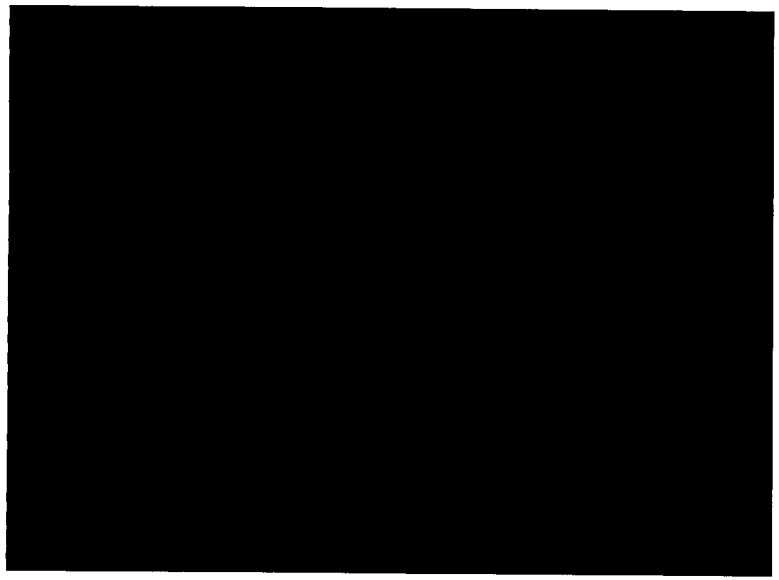

FIGURE 2A

FIGURE 2B

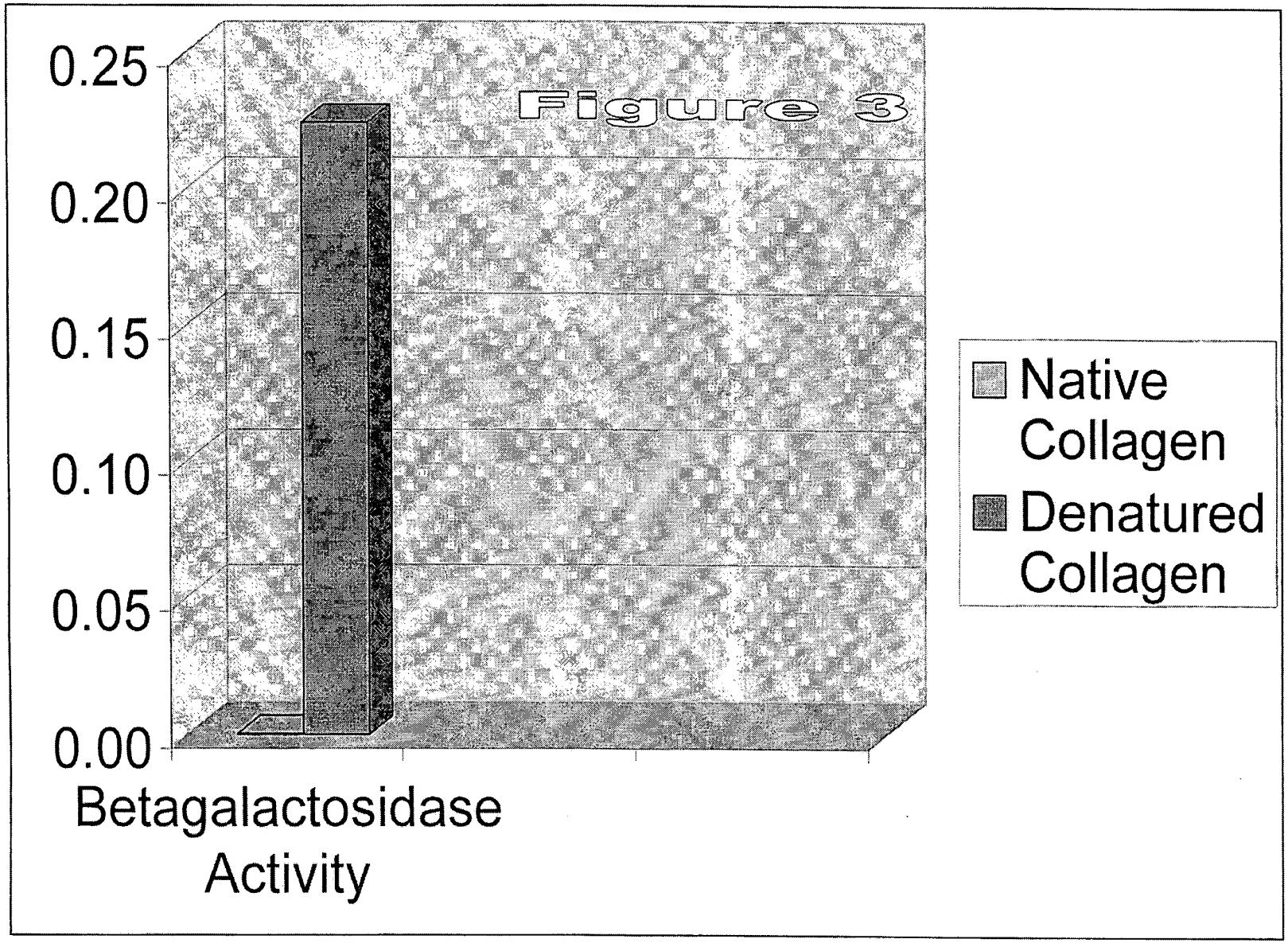
Figure 3
0.25
0.20
0.15
0.10
0.05
0.00
Betagalactosidase Activity
Native Collagen
Denatured Collagen

FIGURE 3

FIGURE 4 A.

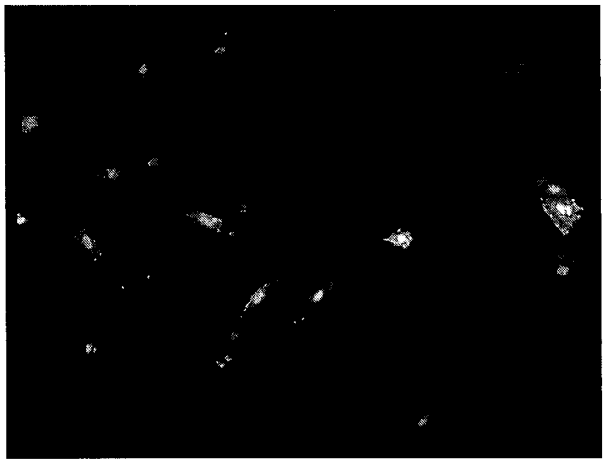

FIGURE 4B.

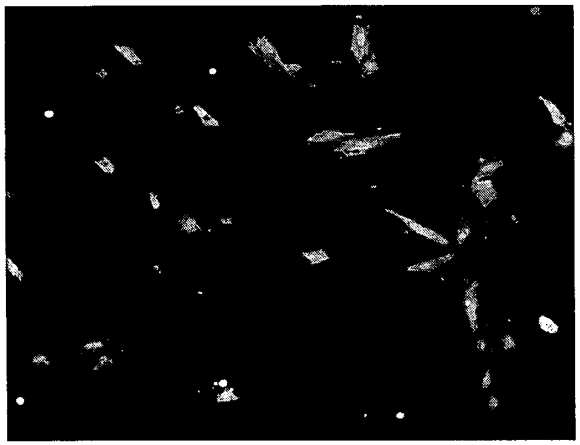

FIGURE 4C.

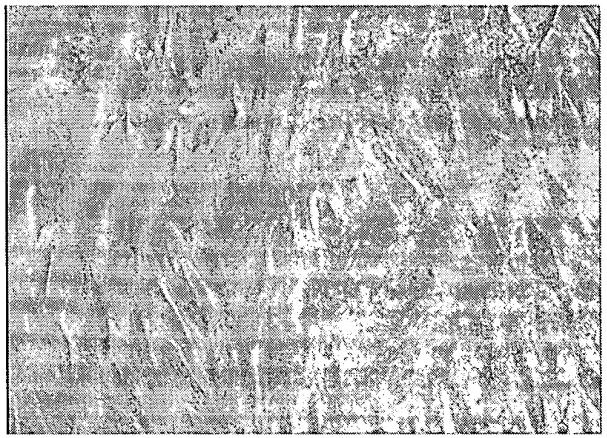

FIGURE 4D.

FIGURE 5

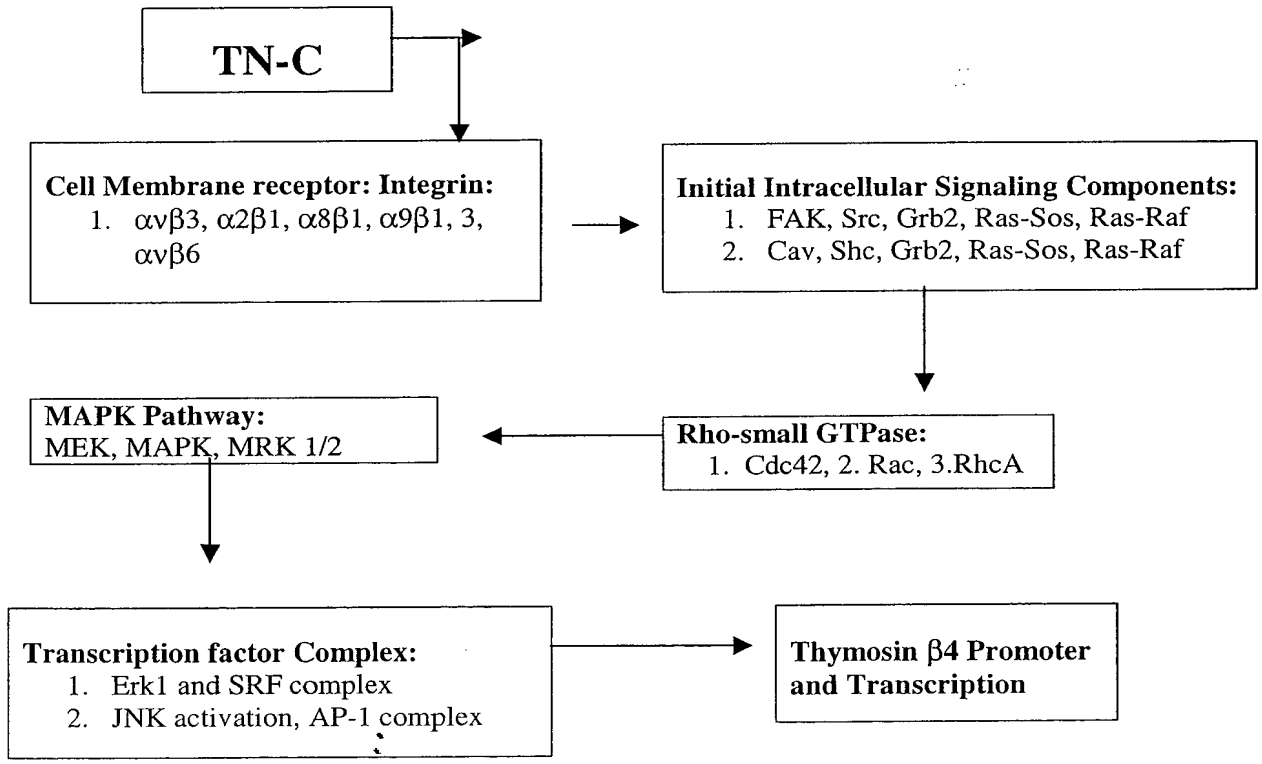
TN-C
Cell Membrane receptor: Integrin:
1. αvβ3, α2β1, α8β1, α9β1, 3, αvβ6
Initial Intracellular Signaling Components:
1. FAK, Src, Grb2, Ras-Sos, Ras-Raf
2. Cav, Shc, Grb2, Ras-Sos, Ras-Raf
MAPK Pathway:
MEK, MAPK, MRK 1/2
Rho-small GTPase:
1. Cdc42, 2. Rac, 3.RhcA
Transcription factor Complex:
1. Erk1 and SRF complex
2. JNK activation, AP-1 complex
Thymosin β4 Promoter and Transcription

FIGURE 6

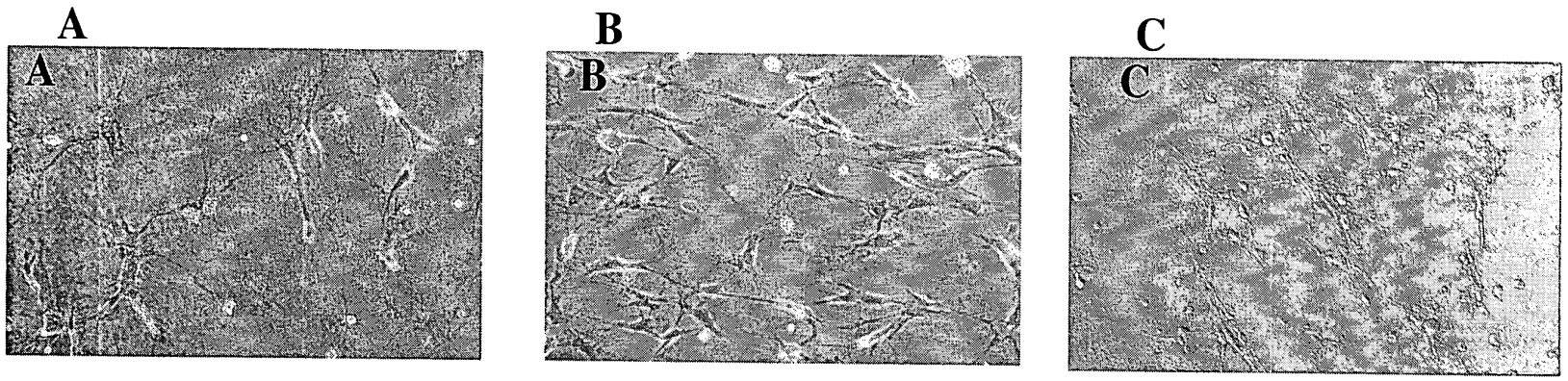

FIGURE 7